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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/916,245	07/30/2001	Han-Young Hong	P56422	8634
7590 Robert E. Bushnell Suite 300 1522 K Street, N.W. Washington, DC 20005-1202			EXAMINER VO, TUNG T	
			ART UNIT 2621	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/916,245

Applicant(s)

HONG, HAN-YOUNG

Examiner

Tung Vo

Art Unit

2621

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02/19/2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 July 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/C)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114 was filed in this application after a decision by the Board of Patent Appeals and Interferences, but before the filing of a Notice of Appeal to the Court of Appeals for the Federal Circuit or the commencement of a civil action. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 02/19/2008 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-2, 4, 7, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Roberts et al. (US 5,440,648).

Re claim 1, Roberts discloses a closed circuit television (CCTV) system (fig. 1) comprising:

a total number of available cameras (30 of fig. 1, where total number is 12 cameras, fig. 10, to camera 1... to camera 12) for generating picture signals;

a multiplexer (38 of fig. 1) allotting identification information to each of the picture signals received from the cameras (30 of fig. 1),

said identification information (col. 12, lines 49-54; twenty-four total bits) being represented by a predetermined number of proper bits (eight bits of pixel coordinate, col. 12, lines 43-45) and a total number of auxiliary bits (eight bits of pixel intensity, col. 12, lines 43-45) equal in number (eight bits) to said predetermined number of proper bits (eight bits), said predetermined number of proper bits being defined in number (eight bits are in number), so that a number of available identifications (col. 12, lines 49-54; twenty-four total bits are considered the number of available identifications) is twice or more than the total number of available cameras (camera 1... camera 12 of fig. 10), said proper identification bits (col. 12, lines 49-54; noted twenty-four total bits identification comprises four bits that identify each camera) identify identifying which camera generated a corresponding picture signal (eight bits pixels); and

a picture signal storage medium (col. 4, lines 47-60, the processed data can be stored on magnetic or other mass storage media) for storing the picture signals and allotted identification information output from the multiplexer (38 of fig. 1).

Re claim 2, Roberts further discloses wherein said multiplexer is a parallel to serial multiplexer (38 of fig. 1).

Re claim 4, Roberts further discloses wherein the picture signal storage medium comprises a single digital storage medium (col. 4, line 60, storage media stores digital pixels).

Re claim 7, Roberts further discloses wherein the logical values of said auxiliary bits are opposite to the logical values of said proper identification bits (col. 12, lines 43-45).

Re claim 12, Roberts further discloses wherein the logical values of said auxiliary bits (eight bits of pixel intensity, col. 12, lines 43-45) are identical to the logical values of said proper identification bits (eight bits of pixel coordinate, col. 12, lines 43-45).

4. Claims 1 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim (US 6,912,351 B1).

Re claim 1, Kim discloses a closed circuit television (CCTV) system comprising:
a total number of available cameras (CAMERA 1, CAMERA 1, CAMERA 3, ..., CAMERA n of fig. 2) for generating picture signals;

a multiplexer (130 of fig. 2) allotting identification information (N byte of fig. 6 is considered identification information, particularly N byte comprises the physical address = 10000000, the camera ID code = 0001, the address of the corresponding I-picture frame=00000000, and picture data stored in the picture data area) to each of the picture signals received from the cameras,

said identification information (N byte of fig. 6) being represented by a predetermined number of proper bits (PHYSICAL ADDRESS= eight bits= 10000000 of fig. 5) and a total number auxiliary bits (CORRESPONDING I-PICTURE ADDRESS= eight bits = 00000000 of fig. 6) equal in number (eight bits) to said predetermined number of proper bits (PHYSICAL ADDRESS= eight bits= 10000000 of fig. 5), said predetermine number of proper bits in number defined in number so that a number of available identifications is twice or more than the total

cameras (CAMERA ID CODE = 0001 (number of available identifications) is twice or more than one camera, note ID CODE, 0001 as four bits is for one camera, so total (n) cameras has (n) (four bits)), said proper identification bits identify which camera (CAMERA ID CODE has 0001 bits) generated a corresponding picture signal (I-PICTURE DATA of fig. 6), and

a picture signal storage medium (1 of fig. 2) for storing the picture signals and allotted identification information output from the multiplexer.

Re claim 4, Kim further discloses wherein the picture signal storage medium comprises a single digital storage medium (1 of fig. 2)

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 3, 5, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberts et al. (US 5,440,648) in view of Cotton et al. (US 4,630,110).

Re claims 3, 5, and 6, Roberts further teaches wherein the picture signal storage medium comprises magnetic (col. 4, lines 57-60), a monitor for displaying picture signals reproduced by said picture signal storage medium (50 of fig. 1), and a controller for storing said picture signals and said identification information in said picture signal storage medium (46 of fig. 1, central computer for controlling storing picture signal).

It is noted that Roberts does not particularly disclose a single video tape in a single video tape recorder; a selection unit for enabling a user to select picture signals corresponding to a particular one of said cameras for display on said monitor by inputting the identification information corresponding to said particular one of said cameras; said controller being responsive to a selection signal generated by said selection unit for selecting the picture signals corresponding to said particular one of said cameras and stored in said picture signal storage medium and outputting the selected picture signals for display on said monitor as claimed.

However, Cotton teaches a single video tape in a single video tape recorder (28 of fig. 1); a selection unit (30 of fig. 1) for enabling a user to select picture signals corresponding to a particular one of said cameras (20 of fig. 1) for display on said monitor (27 of fig. 1) by inputting the identification information corresponding to said particular one of said cameras (note the user uses the keyboard (30 of fig. 1) for selecting the identification information of particular video camera (20) for display on 27 of fig. 1); said controller (25 and 28) responsive to a selection signal (30 of fig. 1) generated by said selection unit for selecting the picture signals corresponding to said particular one of said cameras (20 of fig. 1) and stored in said picture signal storage medium (28 of fig. 1) and outputting the selected picture signals for display on said monitor (27 of fig. 1).

Therefore, taking the teachings of Roberts and Cotton as a whole it would have been obvious to one of ordinary skill in the art to modify the teachings of Cotton into the Roberts in order to provide an improved system for defining events which are used to control operation of a video monitor and/or a video recorder.

7. Claims 8-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberts et al. (US 5,440,648) in view of the applicant's admitted prior art.

Re claims 8, 10, 13, and 15, Roberts teaches the number of cameras is 12 (Camera 1... Camera 12 of fig. 10) and the identification information comprises said proper identification bits (eight bits) and said auxiliary bits (eight bits) (col. 12, lines 43-45). It is noted that Roberts does not particularly teach two said proper identification bits and two said auxiliary bits; three said proper identification bits and three said auxiliary bits.

However, the applicant's admitted prior art (fig. 3) shows the number of cameras is four or eight and the identification information comprises two or three said proper identification bits.

Therefore, it would have been obvious to one of ordinary skill in the art to use the teachings of the applicant's admitted prior art (fig. 3) and the provided bits of Roberts (col. 12, lines 43-45) to set the multiplexer (38 of fig. 1, Roberts) to multiplexing two said proper identification bits and two said auxiliary bits for four cameras; and three said proper identification bits and three said auxiliary bits for eight cameras in order to recording the multiple images from the cameras onto a single recording with an identifying code that indicates the camera. Doing so would allow the user to easily recognize which cameras are active.

Re claims 9, 11, 14, and 15, Roberts teaches the twenty-four bits (col. 12, lines 49-54) and said proper identification bits and said auxiliary bits are disposed in an alternating arrangement such that said auxiliary bits are the least significant and second most significant bits in said arrangement and said proper identification bits are the second least significant bits and the most significant bit in said arrangement (the multiplexer, 38 of fig. 1, would obviously multiplex bits alternately).

8. Claims 2 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (US 6,912,351 B1).

Re claims 2 and 5-6, Kim further teaches the CCTV system a selection unit (USER INPUT, 150 of fig. 2; see example 60 of fig. 1) for enabling a user to select picture signals corresponding to a particular one of said cameras (CAMERA 1... CAMERAn of fig. 2) for display on said monitor by inputting the identification information corresponding to said particular one of said cameras (col. 6, lines 17-22); a controller (150 of fig. 2) for storing said picture signals and said identification information in said picture signal storage medium, said controller being responsive to a selection (80, 130, 140 of fig. 2) signal generated by said selection unit for selecting the picture signals corresponding to said particular one of said cameras and stored in said picture signal storage medium and outputting the selected picture signals for display on a monitor (col. 6, lines 17-22, see also col. 1).

Kim's disclosure of displaying picture signals reproduced by said picture signal storage medium (col. 6, lines 17-22) and a serial digital signal (fig. 6, Note serial of bits is outputted from the multiplexer (130 of fig. 2)), it would have fairly suggested, to one of ordinary skill in the art, to display the picture signal on the monitor and the multiplexer outputs serial digital signal.

9. Claims 1-8 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsugane et al (US 4,961,211) in view of Cooper et al. (US 5,870,139).

Re claims 1, 3, and 6, Tsugane teaches a closed circuit television (CCTV) system (fig. 1) comprising a total number of available cameras (5-8 of fig. 1) for generating picture signals;

a multiplexer (104 of fig. 1) allotting identification information to each of the picture signals received from the cameras (Note the multiplexer (104) multiplexes a DI as a picture signal, the IDM monitor as a plurality of proper identifications are the same as the ID camera IDC, and DV as auxiliary information into a multiplexed signal; see col. 7, lines 1-47);

said identification information being represented by a predetermined number of proper bits (IDM bits (2 bits) and DV bits ($J=14$ bits) are obviously formed into a predetermined numbers of bits to recognize one of the speakers (11-14 of fig. 1) is speaking) and total number auxiliary bits (K -bit parallel signal is total number auxiliary bits, K -bit = 16 bits) equal in number (16 bits) to said predetermine number of proper bits ($IDM \text{ bits} + DV \text{ bits} = 16$), said predetermine number of proper bits is defined in number (16 bits); so that a number of available identifications (IDM (2 bits) and the DV ($J=14$ bits) are combined to have 16 bits more than the number total of available cameras (4 cameras, 5-8 of fig. 1); see also col. 5, line 41-col. 6, line 3) is twice or more than the number of the cameras (5-8 of fig. 1), said proper identification bits identify which camera (IDC(B1B0) of fig. 1)) generated a corresponding picture signal (101 of fig. 1). Tsugane teaches the multiplexed signal that is transmitted to a receiver (220 of fig. 1) for displaying on the selected TV monitor (32-35 of fig. 1) and the corresponding voice to the speaker (31 of fig. 1) and a single digital storage medium (71 of fig. 6; Note a frame memory (71) stores the picture signal DI).

It is noted that Tsugane does not particularly teach a picture signal storage medium comprises a single video tape in a single video tape recorder for storing the picture signals and allotted identification information output from the multiplexer; and a controller for storing said picture signals and said identification information in said picture signal storage medium, and

stored in said picture signal storage medium and outputting the selected picture signals for display on said monitor as claimed.

However, Cooper teaches a picture signal storage medium comprises a single video tape in a single video tape recorder (600 of fig. 1) for storing the picture signals (multiplexed video and audio signals, fig. 1) and allotted identification information output from the multiplexer (fig. 7; Note a video recorder information area (750 of fig. 7) is reserved for the display of information recorded by the video recorder (600 of fig. 1) such as, a timer, date, counter, etc. The camera indicator symbology (760 of fig. 7), placed on the video picture by the video camera code and symbology encoder (270 of fig. 2), displays the number of the video camera (301-304 of fig. 1), which generated the frame or field being viewed. The status indicator symbology (710a-f of fig. 7), status indicator divider (720 of fig. 7), bar graph (730 of fig. 7), dividers for bar graph (740 of fig. 7), and camera indicator symbology (760 of fig. 7) are displayed on a black border created by the video controller (200 of fig. 2) of the video multiplexing system (100 of fig. 1)); a controller (200 of fig. 2) for storing said picture signals and said identification information in said picture signal storage medium, and stored in said picture signal storage medium and outputting the selected picture signals for display on said monitor.

Therefore, taking the combined teachings of Tsugane and Cooper et al. as a whole, it would have been obvious to one of ordinary skill in the art to incorporate the teachings of Cooper into the CCTV of Tsugane for recording the identified code of the camera so that a user would be easily to recognize image from the identified camera. Doing so would allow the user to view the image and know which of the camera is active.

Re claim 2, Tsugane further teaches wherein said multiplexer is a parallel to serial multiplexer (col. 7, lines 48-56).

Re claim 5, Tsugane further teaches a monitor (32-35 of fig. 1) for displaying picture signals reproduced, a selection unit (SW5, manual selection) for enabling a user to select picture signals corresponding to a particular one of said cameras for display on said monitor by inputting the identification information corresponding to said particular one of said cameras (SW1-SW5 of fig. 2; and 9 of fig. 1).

Re claim 6, Tsugane further teaches a controller (9 of fig. 1) being responsive to a selection signal generated by said selection unit for selecting the picture signals corresponding to said particular one of said cameras.

Re claim 7, Tsugane further teaches wherein the logical values of said auxiliary bits (DV (J= 14 bits) are opposite to the logical values of said proper identification bits (IDM = 2 bits).

Re claim 8, Tsugane further teaches wherein the number of cameras is four (5-8 of fig. 1) and the identification information comprises two said proper identification bits (IDM = 2 bits) and two said auxiliary bits (DV (J=14 bits) includes two said auxiliary bits).

Re claim 12, Tsugane further teaches wherein the logical values of said auxiliary bits are identical to the logical values of said proper identification bits (IDM = 2 bits, DV (J=14 bits) are obvious identical to the logic values (bits)).

Re claim 13, Tsugane further teaches wherein the number of cameras is four (5-8 of fig. 1) and the identification information comprises two said proper identification bits (IDM, B1B0) and two said auxiliary bits (J=14 bits would obviously includes two said auxiliary bits).

10. Claims 10 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsugane et al (US 4,961,211) in view of Cooper et al. (US 5,870,139) in view of the applicant's admitted prior art.

Re claims 10 and 15, the combination of Tsugane and Cooper teaches the auxiliary bits is 14 includes the three said auxiliary bits but they do not particularly teach wherein the number of cameras is eight and the identification information comprises three said proper identification bits as claimed.

However, the applicant's admitted prior art (fig. 3) shows the number of cameras is eight and the identification information comprises three said proper identification bits.

Therefore, Taking the teachings of Tsugane, Cooper, and the applicant's admitted prior art as a whole, it would have been obvious to one of ordinary skill in the art to incorporate the applicant's admitted prior art (fig. 3) into the combined CCTV of Tsugane and Cooper for the same purpose of recording the multiple images from the cameras onto a single recording with an identifying code that indicates the camera. Doing so would allow the user to easily recognize which cameras are active.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tonkin et al. (US 6,061,089) discloses high speed digital video serial link.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tung Vo/

Primary Examiner, Art Unit 2621